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vincial geologist, Bureau of Mines, Toronto, Ontario; or from Mr. Cole.

An excursion of ten days after the meeting to the Rocky Mountains and the Pacific Coast is contemplated. Accommodation in the special train will be limited to 150 invited members, including 25 ladies.

Those proposing to attend the Winnipeg meeting can obtain from any railway ticket agent in eastern or western Canada a standard convention certificate which when properly validated in Winnipeg will enable them to return over the same route to the initial starting point without charge. Such certificates will be sold from August 16 to August 23 and will be valid for return until October 31. The fare from Quebec or Montreal to Winnipeg is \$36.

It will be remembered that members of the American Association for the Advancement of Science will be admitted as full members of the British Association, for the Winnipeg meeting (and entitled to receive the volume of Proceedings), on payment of a fee of \$5 (half the regular fee). It is important that those intending to be present should send in their names as soon as possible; printed matter bearing on the meeting will be gladly furnished by the local secretaries, the University of Manitoba, Winnipeg.

THE DARWIN CENTENARY AT CAMBRIDGE

THE program of the commemoration began on the evening of June 22, when Lord Rayleigh, the chancellor of the university, welcomed to Cambridge the delegates, of whom there were two hundred and fifty, including thirty from the United States. On the following day addresses were presented by the delegates and speeches were made by the chancellor, Professor Hertwig, Professor Metchnikoff, Dr. Osborn and Sir E. Ray Lankester. In the afternoon there was a garden party at Christ's College, where Darwin was a student. There had been arranged there an extensive exhibition of portraits, manuscripts and other objects. To Christ's College the American delegates presented a bronze replica of the bust of Darwin by Mr.

Couper, presented by the New York Academy of Sciences to the American Museum of Natural History. In the evening there was a dinner with addresses by Mr. Balfour and Professor Poulton. This was followed by a reception at Pembroke College. On Thursday honorary degrees were conferred on twenty-one delegates whose names have already been printed in *SCIENCE* and Sir Archibald Geikie, president of the Royal Society, gave the Rede lecture on Darwin as a geologist. In the afternoon there was a garden party at Trinity College given by members of the Darwin family.

SCIENTIFIC NOTES AND NEWS

SIMON NEWCOMB, the great astronomer, born in Wallace, Nova Scotia, on March 12, 1835, died from cancer at his home in Washington in the early morning of July 11.

AMONG the honors awarded on the birthday of King Edward are knighthoods to Mr. Francis Galton, Professor J. Larmor, Mr. R. H. I. Palgrave and Professor T. E. Thorpe. Sir Dyce Duckworth and Mr. Henry Morris, president of the Royal College of Surgeons, received baronetcies; Dr. W. Schlich was appointed a Knight Commander of the Order of the Indian Empire (K.C.I.E.) and Mr. James Stuart has been made a privy councillor.

THE University of Manchester has conferred its doctorate of science on Professor Theodore W. Richards, professor of chemistry at Harvard; Dr. Otto Wallach, professor of organic chemistry at Göttingen, and Professor Henry E. Armstrong, professor of chemistry in the City and Guilds of London Technical Institute.

IN connection with the Darwin centenary celebrations Mr. Francis Darwin has been elected a foreign member of La Société Hollandaise des Sciences, Harlem, and a member of the American Philosophical Society, and Professor Sir George Darwin and Mr. Francis Darwin have been elected corresponding members of the Senckenbergische Naturforschende Gesellschaft, Frankfort, honorary members

of the Imperial Moscow Society of Naturalists, honorary members of the University of Moscow and members of the Kaiserliche Leopoldinisch-Carolinische Deutsche Akademie, Halle. The last-named academy was the first of foreign academies to honor Charles Darwin by making him a member in the year 1857. He was also a member of the Harlem, Philadelphia, Frankfort, Moscow and Halle Societies.

ON the occasion of the opening of the new surgical block of the Glasgow Royal Infirmary on June 23, a medallion portrait in bronze of Lord Lister was presented by the past and present members of the staff. The medallion is fixed on the wall opposite the entrance hall of the new block. The inscription on the framework records that Lord Lister was one of the surgeons of the Royal Infirmary from 1861 till 1869, and that in that institution he organized the antiseptic system of surgical treatment.

AT the meeting of the Physiological Society held at Oxford on June 26 Professor Gotch, who presided on the occasion, after a sympathetic speech, presented to Dr. Pavy, in commemoration of the eightieth anniversary of his birth, a silver bowl bearing the following inscription: "Frederick William Pavy, M.D., F.R.S., May 29th, 1909. From the Physiological Society, in token of affection and admiration."

A PAINTING by Mr. W. S. Kendall of Dr. T. M. Prudden, professor of pathology in Columbia University from 1882 to 1909, now emeritus professor, has been presented to the university by colleagues, students and other friends.

DR. J. MARK BALDWIN, professor of philosophy and psychology in the Johns Hopkins University, has resigned. Professor Baldwin has been attending the Darwin centenary at Cambridge, as the representative of the Johns Hopkins University and the Mexican Department of Public Instruction, and expects to remain abroad for some time.

MR. F. H. SEARES has resigned the position of professor of astronomy and director of

the Laws Observatory of the University of Missouri. On August 1 he will become superintendent of the computing division of the Mount Wilson Solar Observatory of the Carnegie Institution.

DR. ALONZO S. MCDANIEL, who took the Ph.D. degree with physical chemistry as his major subject at Wisconsin last June, has been appointed chemist at the Bureau of Standards, Washington, D. C.

DR. MAZYCK P. RAVENEL, director of the State Hygienic Laboratory, Madison, will be placed at the head of the Wisconsin Pasteur Institute recently established in connection with the state laboratory.

MR. SINCLAIR WHITE, senior surgeon to the Royal Infirmary at Sheffield, has been elected president of the British Medical Association, to fill the vacancy caused by the death of Mr. Simeon Snell.

PROFESSOR ALBERT LADENBURG, director of the chemical laboratories at Breslau and known for his work in organic chemistry, is about to retire from active service.

DR. PAUL ASCHERSON, professor at Berlin, and eminent for his work on the geographical distribution of plants, has celebrated his seventy-first birthday.

DR. REID HUNT has gone abroad to attend, as representative of the Public Health Service, the International Congress on Alcoholism, London, July 18, and the International Medical Congress, Budapest, August 28.

DR. SPENCER TROTTER, professor of biology at Swarthmore College, has been granted leave of absence for the coming year. Dr. Trotter will study in the museums in Germany and France, and in the marine laboratories on the Mediterranean. Mr. Samuel Copeland Palmer, who has spent two years in the graduate school of Harvard University, will be acting professor of biology.

DR. JOHN A. MILLER, professor of mathematics and astronomy at Swarthmore College, is spending the summer at the Lick Observatory, measuring the photographs of the solar corona at that place. The new photographic telescope of nine inches aperture, the first

part of the astronomical equipment given to Swarthmore by Senator William C. Sproul, was installed this year in the new observatory provided for it. The observatory of Dorpat, Russia, has requested copies of the photographs of the Morehouse Comet, made on October 14, 15, 16 and 17, at the Sproul Observatory, Swarthmore College. These photographs will be published in the proceedings of the Russian observatory.

THE sum of \$8,000 required to purchase the home for the widow and children of the late Major Carroll has now been subscribed. The subscriptions came mainly from medical officers of the army and the Marine Hospital Service and from physicians.

PROFESSOR J. D. CUNNINGHAM, of the University of Edinburgh, eminent for his services to anatomy, has died at the age of fifty-nine years.

DR. WILHELM ZOPF, professor of botany at Münster, has died at the age of sixty-two years.

THE deaths are also announced of Mr. G. F. Beacon, a distinguished British civil engineer, and of Dr. Wilhelm Müller, professor of pathological anatomy at Jena.

THE Congress has appropriated the sum of \$25,000 for the expenses of the Congress of Hygiene and Demography, which is to be held in Washington next year.

A JOINT meeting of the International Scientific Association of Colonial Agriculture of Paris and the Society of Tropical Studies of Brussels, will take place in Paris on July 9, to make arrangements for holding the International Congress of Tropical and Colonial Planters and Experts interested in tropical agriculture, which will take place in Brussels in May, 1910.

THE Gamma chapter of the honorary fraternity of Phi Lambda Upsilon has been established at Columbia. Membership is limited to chemists and chemical engineers in the faculty, graduates and advanced students.

THE following addresses have been delivered at the regular monthly meetings of the Oregon Academy of Sciences: April meeting, "Cremation *vs.* Earth Burial," by Colonel A. W.

Miller; May meeting, "Douglas Fir," by Dr. J. R. Cardwell; June meeting, "Alaska during the Klondike Rush," by Albert M. Grilley, illustrated by stereoptican views.

THE wall maps, atlases and text-books, representative of many of the best appliances used for geographical education in Europe, which were collected last year by the American Geographical Society, are now on exhibition in the university summer schools of the middle west. The exhibition opened at the University of Wisconsin on April 15, at the University of Minnesota on June 4 and at the Ohio State University on June 21. The later exhibitions will open at the University of Chicago, June 15; Denison University, Granville, Ohio, September 15; University of Cincinnati, October 15; State Normal School of Michigan, Ypsilanti, November 24, and the University of Michigan, December 1. The University of California and Leland Stanford Junior University have secured the collection for dates not yet assigned and when it goes to the Pacific coast it will probably remain there for some time. Not a few teachers think that the collection will be especially helpful in the normal schools and it is expected that many of them will exhibit it. The material is loaned to any educational institution that desires it.

At a recent meeting of the County Schools Commissioners of Georgia, in convention at Tallulah Falls, June 29 and 30 and July 1, the subject of birds in their relation to agriculture was discussed, and it was decided to introduce the subject as a study into the common schools of the state. Professor R. J. H. DeLoach, of the University of Georgia College of Agriculture, was asked by the convention to prepare a bulletin on the subject, which is to be published by the state school commissioner and distributed, free of charge, to all school teachers in the state. Georgia is rich in bird life, both in summer and winter, and the teachers will be able with proper guidance to greatly strengthen the fight for bird protection in the state.

A FORESTRY survey of the State of Illinois is now in progress under the joint auspices of the Illinois State Laboratory of Natural His-

tory and the United States Forest Service, which share equally in the expenses of the work. Engagements have been entered into which will bring the survey to a completion in 1910. Maps will be published showing the present and original distribution of forest areas in Illinois, and a report will be made, by counties, in detail, together with a description of the various types of forest, as to composition and condition, estimates of the standing timber in each county, means of maintaining the producing power of the forest lands of the state, and recommendations to private owners for the handling of their lands in a way to maintain and improve their forests.

AN Alabama Anthropological Society has been established. It is composed of twelve active members, residents of Montgomery, and of such associate and honorary members (an unlimited number) as may be hereafter elected. There are to be 12 meetings each year, each member submitting one paper. It is planned to issue from time to time publications of a scientific nature and a yearly bulletin containing the twelve papers submitted during the year. The first regular meeting will take place on July 22. The officers are: Thomas M. Owen, LL.D., president; Herbert B. Battle, Ph.D., vice-president; Peter A. Brannon, secretary; Buckner Beasley, treasurer.

UNIVERSITY AND EDUCATIONAL NEWS

MR. JOHN D. ROCKEFELLER has made a further gift of \$10,000,000 to the General Education Board. Its endowment is now \$53,000,000. Mr. Rockefeller has authorized the board to distribute the principal as well as the income for educational purposes should this at any future time appear to be advisable.

UNION COLLEGE has received \$75,000 from Mrs. Katherine Spencer Leavitt, of Washington, for the endowment of the department of philosophy, the gift being in memory of her father, Rev. Dr. Spencer, of Brooklyn, N. Y., who was graduated from Union in 1824.

LORD STRATHCONA, Canadian high commissioner in London, has given half a million

dollars to McGill University. Of this amount, \$450,000 is to be used for completing the new medical building, and the balance for the augmentation of salaries of the faculty.

MESSRS. JOHN SWIRE AND SONS have promised a contribution of £30,000 towards the Hong Kong University endowment fund, the Taikoo Sugar Refining Company £5,000 and the Ocean Steamship Company £5,000, on condition that the whole amount required is subscribed.

THE University of Liverpool announces that the J. W. Garrett international fellowship in pathology and physiology of the value of £100 per annum, open to members of universities and medical schools in the United States, will be awarded in September. Applications should be addressed to the dean of the medical faculty, University of Liverpool.

DR. MILTON J. ROSENAU, director of the hygienic laboratories of the Public Health and Marine Hospital Service, has been appointed head of a newly established department of hygiene and preventive medicine in the Harvard Medical School.

PROFESSOR JULIUS STIEGLITZ, of the department of chemistry of the University of Chicago, has recently been made director of the laboratories of analytical chemistry in that institution.

STUDENTS who have been engaged in research work in the laboratory of physiological chemistry of Yale University and have received the degree of doctor of philosophy from the institution, have received appointments as follows: John Franklin Lyman, assistant professor agricultural chemistry, Ohio State University; Mary Davies Swartz, instructor in Teachers College, Columbia University; Israel S. Kleiner, demonstrator of physiological chemistry, medical department, of Tulane University; Warren W. Hilditch, instructor in physiological chemistry, Syracuse University; Victor C. Myers, adjunct professor of physiological chemistry, Albany Medical College; Arthur W. Dox, chemist, cheese investigations, Storrs Agricultural Experiment Station.